

WHAT IS CLAIMED IS:

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1. A portable electronic device, comprising:
a housing;
computing electronics supported by the housing, including a processor, a display controller coupled to the processor and memory coupled to the processor;
an expandable display coupled to the display controller, the expandable display is expandable from a first size to a second size, the first size being different than the second size; and
a sensor coupled to the processor, the sensor configured to provide a signal representative of the size of the display.
 2. The portable electronic device of claim 1, wherein the computing electronics run a program to interpret the signal and to reformat information on the display, to fill the display screen.
 3. The portable electronic device of claim 2, wherein the reformat includes displaying more information on the display.
 4. The portable electronic device of claim 2, wherein the reformat includes displaying less information on the display.
 5. The portable electronic device of claim 2, wherein the reformat includes displaying the same amount of information at a different resolution.
 6. The portable electronic device of claim 1, wherein the expandable display includes a foldable display.
 7. The portable electronic device of claim 1, wherein the expandable display includes a rollable display.

1 8. The portable electronic device of claim 7, wherein the
2 housing includes an aperture wherein a user may view information
3 through the aperture on a portion of the rollable display within the housing

4 9. The portable electronic device of claim 1, wherein the sensor
5 includes a hinge sensor.

1 10. The portable electronic device of claim 1, wherein the sensor
2 includes an electrotexile sensor.

1 11. The portable electronic device of claim 1, wherein the sensor
2 includes a magnetic sensor.

1 12. The portable electronic device of claim 1, wherein the sensor
2 includes an electrical sensor.

1 13. The portable electronic device of claim 1, wherein the sensor
2 includes an optical sensor.

1 14. A method of providing information to a user of an electronic
2 device, comprising:
3 providing a first amount of user information on a display in a
4 first size configuration;
5 resizing the display to a second size configuration;
6 sensing, automatically, the second size configuration of the
7 display; and
8 reformatting the displayed image according to the second
9 size configuration.

1 15. The method of claim 14 wherein the reformatting includes
2 displaying a second amount of user information on the display in the
3 second configuration.

1 16. The method of claim 15 wherein the second amount of user
2 information is more than the first amount of user information.

1 17. The method of claim 15 wherein the first amount of user
2 information is the same as the second amount of user information, and
3 the second amount of user information is displayed at a different
4 resolution.

1 18. A display for an electronic device, comprising:
2 a first display surface, the first display surface being visible
3 in a first configuration;
4 a second display surface, the second display surface being
5 larger than the first display surface, the second display surface being
6 visible in a second configuration; and
7 a sensor configured to provide a configuration signal
8 representative of the display being in one of the first configuration and the
9 second configuration.

1 19. The display of claim 18 wherein the first and second display
2 surfaces are part of a foldable display.

1 20. The display of claim 18 wherein the first and second display
2 surfaces are part of a rollable display.

1 21. The display of claim 18 wherein the sensor includes a hinge
2 sensor.

1 22. The display of claim 18 wherein the sensor includes an
2 electrotexile sensor.

1 23. The display of claim 18 wherein the sensor includes a
2 magnetic sensor.

1 24. The display of claim 18 wherein the sensor includes an
2 electrical sensor.

1 25. The display of claim 18 wherein the sensor includes an
2 optical sensor.

1 26. A portable electronic device configured to provide
2 information to a user of the portable electronic device, comprising:
3 a means for providing a first amount of user information on a
4 display in a first size configuration;
5 a means for resizing the display to a second size
6 configuration;
7 a means for sensing, automatically, the second size
8 configuration of the display; and
9 a means for reformatting the displayed image according to
10 the second size configuration.

1 27. The portable electronic device of claim 26 wherein the
2 means for reformatting includes a means displaying a second amount of
3 user information on the display in the second configuration.

1 28. The portable electronic device of claim 27 wherein the
2 second amount of user information is more than the first amount of user
3 information.

1 29. The portable electronic device of claim 27 wherein the first
2 amount of user information is the same as the second amount of user
3 information, and the second amount of user information is displayed at a
4 different resolution.